28

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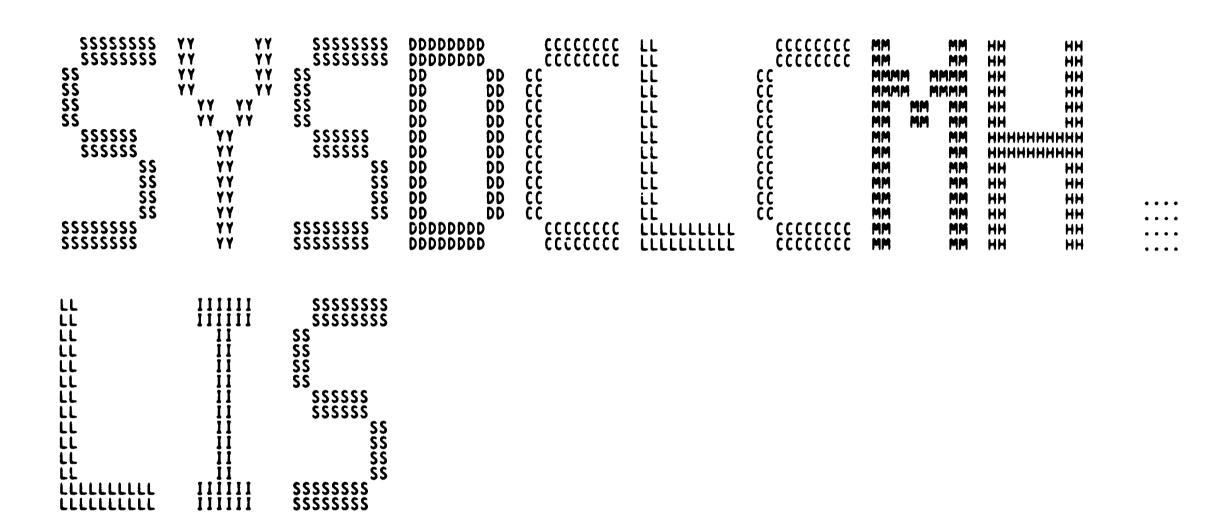
2\$

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SY

SYSDCLCMH
Table of contents

- DECLARE CHANGE MODE OR COMPATIBILITY M 1

(1) 48 DECLARE CHANGE MODE OR COMPATIBILITY MODE HANDLER

- DECLARE CHANGE MODE OR COMPATIBILITY M 16-SEP-1984 01:56:45 VAX/VP7 Macro V04-00

Page

. 0

0000000

0000

46 TYPE=12

VAX/VMS Macro V04-00

TYPE OF HANDLER TO DECLARE

Pa Sy Pa Sy Cr As Th 23 Th 21 12

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- DECLARE CHANGE MODE OR COMPATIBILITY M 16-SEP-1984 01:56:45 VAX/VMS Macro VO4-00 DECLARE CHANGE MODE OR COMPATIBILITY MOD 5-SEP-1984 03:50:24 [SYS.SRC]SYSDCLCMH.MAR;1
                                                                                                                                   (1)
                                                 .SBTTL DECLARE CHANGE MODE OR COMPATIBILITY MODE HANDLER
                           0000
                           0000
                                       : EXESDCLCMH - DECLARE CHANGE MODE OR COMPATIBILITY MODE HANDLER
                                    51
                           0000
                           0000
                                          THIS SERVICE PROVIDES THE CAPABILITY TO SPECIFY A COMPATIBILITY MODE
                                         HANDLER FOR COMPATIBILITY MODE TRAPS, OR A CHANGE MODE HANDLER FOR
                           0000
                           0000
                                          THE CALLING ACCESS MODE. A CHANGE MODE HANDLER MAY ONLY BE
                           0000
                                         FROM SUPERVISOR OR USER MODES.
                                    56
57
                           0000
                           0000
                                         INPUTS:
                                    58
59
                           0000
                           0000
                                                 ADDRES(AP) = ADDRESS OF HANDLER TO BE DECLARED
                                                PRVHND(AP) = ADDRESS TO RETURN OLD HANDLER ADDRESS
                           0000
                                    60
                           0000
                                    61
                                                TYPE(AP) = TYPE OF HANDLER TO BE DEJLARED
                                    62
                                                          0 -> DECLARE CHANGE MODE HANDLER FOR CURRENT MODE
                           0000
                                                          1 -> DECLARE COMPATIBILITY MODE HANDLER
                           0000
                           0000
                                    64
                           0000
                                    65
                                                R4 = CURRENT PROCESS PCB ADDRESS.
                           0000
                                    66
                           0000
                                    67
                                          IMPLICIT INPUTS:
                           0000
                                    68
                           0000
                                    69
                                                CTLSGL_CMSUPR = ADDRESS OF THE FIRST OF THREE VECTORS, THE FIRST
                                    70
71
72
73
74
75
                           0000
                                                                   TWO BEING THE CHANGE MODE VECTORS FOR SUPERVISOR
                           0000
                                                                   AND USER MODES. THE THIRD BEING THE COMPATIBILITY
                           0000
                                                                   MODE VECTOR.
                           0000
                           0000
                                         OUTPUTS:
                           0000
                                    76
77
                           0000
                                                RO LOW BIT CLEAR INDICATES FAILURE TO DECLARE CHANGE MODE HANDLER
                           0000
                                    78
79
                                                          RO = SS$_ACCVIO - PREVIOUS HANDLER ADDRESS CANNOT BE
                           0000
                           0000
                                                                  WRITTEN TO aprive (AP) By calling access mode.
                           0000
                                    80
                           0000
                                    81
                                                RO LOW BIT SET INDICATES SUCCESSFUL COMPLETION.
                                    82
83
                           0000
                           0000
                                                         RO = SS$ NORMAL - NORMAL COMPLETION.
                           0000
                           0000
                                    85
                                         SIDE EFFECTS:
                                    86
87
                           0000
                                                 SERVICE WILL CAUSE A BUGCHECK IF CALLED TO DECLARE CHANGE
                           0000
                                    88
                           0000
                                                MODE HANDLER FROM KERNEL OR EXECUTIVE MODES.
                                    89
                           0000
                                    90
                           0000
                                                 .PSECT
                      0000000
                                    91
                                                         Y$EXEPAGED
                                    92
93
                    0010
                                                 .ENTRY
                                                         EXESDCLCMH, M<R4>
                           0000
      00000000'9F
                                                 MOVAL
 54
                                                         @#CTL$GL_CMSUPR,R4
                                                                                       ADDRESS OF VECTORS
                      DE
                           0002
                      DŌ
                                    94
                                                                                       INDEX TO COMPAT. MODE HANDLER VECTOR
           50
                02
                                                          #2.R0
                           0009
                                                MOVL
          00 00
                      E8
                                    95
                                                                                       BRANCH IF DECLARE COMPAT. HANDLER SERVICE
                           000c
                                                          TYPE (AP), 10$
                                                BLBS
                                                                                       READ CURRENT PSL
                                    96
                                                 MOVPSL
                 50
                      DC
                           0010
                                                         RO
          02
50
                                                         #PSL$V_PRVMOD, #PSL$S_PRVMOD, RO, RO; EXTRACT PREVIOUS MODE #2, RO; SUBTRACT SUPERVISOR MODE BIAS
                           0012
0017
                                    97
50
                      EF
                                                EXTZV
     50
                 16
                      Č2
                                                         #2,R0
30$
                 02
                                    98
                                                 SUBL
                 İŌ
                                                                                       IF LSS, CALLED FROM KERNEL OR EXEC
                           001A
                                    99
                                                BLSS
                                                                                       GET ADDRESS TO RETURN PREVIOUS HANDLER
                      DO
                           001c
                                   100 105:
                                                          PRVHND(AP),R1
        51
             80
                                                 MOVL
                 AC
                      13
                           0020
                                   101
                                                          20$
                                                                                       BRANCH IF NONE SPECIFIED
                 OA.
                                                BEQL
                                                IFNOWRT #4, (R1), 40$
MOVL (R4)[R0], (R1)
                           0022
                                   102
                                                                                       CAN IT BE WRITTEN?
              6440
                      D0
                                                                                      YES, RETURN PREVIOUS HANDLER ADDRESS
     6440
             04 AC
                      DO
                           0020
                                   104 205:
                                                 MOVL
                                                          ADDRÉS(AP),(R4)[R0]
                                                                                     : SET NEW HANDLER ADDRESS
```

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SYSDCLCMH VO4-000

M 7
- DECLARE CHANGE MODE OR COMPATIBILITY M 16-SEP-1984 01:56:45 VAX/VMS Macro V04-00 DECLARE CHANGE MODE OR COMPATIBILITY MOD 5-SEP-1984 03:50:24 [SYS.SRC]SYSDCLCMH.MAR;1 3 (1) Page 105 106 107 108 109 110 111 112 113 50 3C 04 MOVZWL #SS\$_NORMAL,RO ; NURMAL STATUS 01 RET BUG_CHECK_IVSSRVRQST MOVZWL #SS\$_IVSSRQ,RO INVALID SYSTEM SERVICE REQUEST INVALID SERVICE REQUEST RETURN CODE 3C 04 3C 04 50 0174 8F 003E 003F 0042 0043 0043 RET 50 00 MÖVZWL #SS\$_ACCVIO,RO ; ACCESS VIOLATION CODE RET

.END

```
- DECLARE CHANGE MODE OR COMPATIBILITY M 16-SEP-1984 01:56:45 VAX/VMS Macro V04-00 5-SEP-1984 03:50:24 ESYS.SRCJSYSDCLCMH.MAR;1
SYSDCLCMH
Symbol table
                                                                                                                                                 Page
                                                                                                                                                         (1)
ADDRES
                                     = 00000004
BUGS IVSSRVRQST
CTLSGL CMSUPR
EXESDCECMH
                                                         02
05
05
                                       ******
                                       ******
                                       00000000 RG
PRVHND
                                     = 00000008
PSL$S_PRVMOD
PSL$V_PRVMOD
SS$_ACCVIO
SS$_IVSSRQ
SS$_NORMAL
                                     = 00000002
                                     = 00000016
                                     = 0000000
                                    = 00000174
                                     = 00000001
TYPE
                                     = 0000000C
                                                           Psect synopsis!
PSECT name
                                      Allocation
                                                              PSECT No.
                                                                          Attributes
                                      00000000
   ABS
                                                             00 (
                                                                    0.)
                                                                           NOPIC
                                                                                    USR
                                                                                           CON
                                                                                                  ABS
                                                                                                         LCL NOSHR NOEXE NORD
                                                                                                                                   NOWRT NOVEC BYTE
$ABS$
                                                             01 (
                                      00000000
                                                        0.)
                                                                    1.)
                                                                           NOPIC
                                                                                    USR
                                                                                           CON
                                                                                                  ABS
                                                                                                         LCL NOSHR
                                                                                                                                      WRT NOVEC BYTE
                                                                                                                       EXE
                                                                                                                              RD
YSEXEPAGED
                                      00000043
                                                      67.)
                                                                     2.)
                                                                           NOPIC
                                                                                    USR
                                                                                           CON
                                                                                                  REL
                                                                                                         LCL NOSHR
                                                                                                                       EXE
                                                                                                                              RD
                                                                                                                                      WRT NOVEC BYTE
                                                       Performance indicators
Phase
                              Page faults
                                               CPU Time
                                                                 Elapsed Time
Initialization
                                                00:00:00.08
                                                                 00:00:01.97
                                      108
Command processing
                                               00:00:00.53
                                                                 00:00:05.05
Pass 1
                                      203
                                               00:00:04.04
                                                                 00:00:13.18
Symbol table sorc
                                        0
                                               00:00:00.67
                                                                 00:00:02.96
                                       40
Pass 2
                                               00:00:00.70
                                                                 00:00:04.18
Symbol table output
                                               00:00:00.03
                                                                 00:00:00.24
Psect synopsis output
                                               00:00:00.03
                                                                 00:00:00.40
Cross-reference output
                                               00:00:00.00
                                                                 00:00:00.00
Assembler run totals
                                                00:00:06.09
                                                                 00:00:27.98
The working set limit was 1050 pages.
22129 bytes (44 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 452 non-local and 4 local symbols.
113 source lines were read in Pass 1, producing 16 object records in Pass 2. 11 pages of virtual memory were used to define 10 macros.
                                                      Macro library statistics !
Macro Library name
                                                     Macros defined
_$255$DUA28:[SYS.OBJ]LIB.MLB;1
_$255$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)
521 GETS were required to define 7 macros.
```

There were no errors, warnings or information messages.

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- DECLARE CHANGE MODE OR COMPATIBILITY M 16-SEP-1984 01:56:45 VAX/VMS Macro V04-00 5-SEP-1984 03:50:24 [SYS.SRC]SYSDCLCMH.MAR;1 SYSDCLCMH VAX-11 Macro Run Statistics MACRO/LIS=LIS\$:SYSDCLCMH/OBJ=OBJ\$:SYSDCLCMH MSRC\$:SYSDCLCMH/UPDATE=(ENH\$:SYSDCLCMH)+EXECML\$/LIB

0383 AH-BT13A-SE

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